

Title (en)
POSITIVE ELECTRODE COATING LIQUID, POSITIVE ELECTRODE PRECURSOR, AND NONAQUEOUS LITHIUM ELECTRIC STORAGE ELEMENT

Title (de)
POSITIVELEKTRODEN-BESCHICHTUNGSFLÜSSIGKEIT, POSITIVELEKTRODENVORLÄUFER UND WASSERFREIES ELEKTRISCHES LITHIUM-SPEICHERELEMENT

Title (fr)
LIQUIDE DE REVÊTEMENT D'ÉLECTRODE POSITIVE, PRÉCURSEUR D'ÉLECTRODE POSITIVE, ET ÉLÉMENT DE STOCKAGE AU LITHIUM NON AQUEUX

Publication
EP 3712916 B1 20240103 (EN)

Application
EP 18879270 A 20181113

Priority
• JP 2017219289 A 20171114
• JP 2017219302 A 20171114
• JP 2018042002 W 20181113

Abstract (en)
[origin: US2020194775A1] Provided is a positive electrode precursor having a positive electrode active material layer, wherein the mass proportion A1 of a carbon material in the positive electrode active material layer accounts for 15-65 mass %, the mass proportion A2 of a lithium transition metal oxide in the positive electrode active material layer accounts for 5-35 mass %, the mass proportion A3 of an alkali metal compound in the positive electrode active material layer accounts for 10-50 mass %, A2/A1 is 0.10-2.00, A1/A3 is 0.50-3.00, and the positive electrode active material layer has a peel strength of 0.02-3.00 N/cm.

IPC 8 full level
H01G 11/50 (2013.01); **H01G 11/06** (2013.01); **H01G 11/10** (2013.01); **H01G 11/24** (2013.01); **H01G 11/46** (2013.01); **H01M 4/04** (2006.01); **H01M 4/131** (2010.01); **H01M 4/133** (2010.01); **H01M 4/134** (2010.01); **H01M 4/136** (2010.01); **H01M 4/1391** (2010.01); **H01M 4/1393** (2010.01); **H01M 4/1395** (2010.01); **H01M 4/1397** (2010.01); **H01M 4/36** (2006.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 4/58** (2010.01); **H01M 4/583** (2010.01); **H01M 4/62** (2006.01); **H01M 8/00** (2016.01); **H01G 11/08** (2013.01); **H01G 11/32** (2013.01)

CPC (source: EP KR US)
H01G 11/06 (2013.01 - EP KR); **H01G 11/10** (2013.01 - KR); **H01G 11/24** (2013.01 - EP KR); **H01G 11/46** (2013.01 - EP KR); **H01G 11/50** (2013.01 - EP KR); **H01M 4/0404** (2013.01 - EP); **H01M 4/131** (2013.01 - EP KR US); **H01M 4/133** (2013.01 - KR US); **H01M 4/134** (2013.01 - EP); **H01M 4/136** (2013.01 - KR); **H01M 4/1391** (2013.01 - EP US); **H01M 4/1395** (2013.01 - EP); **H01M 4/364** (2013.01 - EP); **H01M 4/505** (2013.01 - EP US); **H01M 4/525** (2013.01 - EP); **H01M 4/5825** (2013.01 - EP); **H01M 4/62** (2013.01 - KR); **H01M 4/625** (2013.01 - EP); **H01M 4/66** (2013.01 - US); **H01M 10/4264** (2013.01 - KR); **H01M 16/00** (2013.01 - KR); **H01G 11/08** (2013.01 - EP); **H01G 11/32** (2013.01 - EP); **H01M 2004/028** (2013.01 - US); **Y02E 60/10** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

Designated contracting state (EPC)
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DOCDB simple family (publication)
US 11942621 B2 20240326; US 2020194775 A1 20200618; CN 111066108 A 20200424; CN 111066108 B 20220426; EP 3712916 A1 20200923; EP 3712916 A4 20210127; EP 3712916 B1 20240103; JP 6937381 B2 20210922; JP WO2019098197 A1 20200727; KR 102320298 B1 20211101; KR 20200035447 A 20200403; TW 201929301 A 20190716; TW I704713 B 20200911; WO 2019098197 A1 20190523

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US 201816644295 A 20181113; CN 201880058844 A 20181113; EP 18879270 A 20181113; JP 2018042002 W 20181113; JP 2019554231 A 20181113; KR 20207006524 A 20181113; TW 107140239 A 20181113